



ICAO

*International Civil Aviation Organization***Seventh Meeting of the Asia/Pacific ATS Inter-facility
Data-link Communication Implementation Task Force
(APA TF/7) of APANPIRG**

Video Teleconference,

Agenda Item 3: Sharing of experience on AIDC implementation and update the implementation status.

AIDC IMPLEMENTATION IN MALAYSIA

(Presented by Malaysia)

SUMMARY

This paper reports on the status of AIDC implementation plan in Malaysia (Kuala Lumpur FIR and Kota Kinabalu FIR).

1. INTRODUCTION

1.1 Malaysia has two Flight Information Regions (FIRs), Kuala Lumpur FIR and Kota Kinabalu FIR. Kuala Lumpur FIR is adjacent with 5 FIRs (i.e. Chennai, Singapore, Bangkok, Jakarta, and Ho Chi Minh FIR), whereas Kota Kinabalu FIR is adjacent with 4 FIRs (i.e. Jakarta, Manila, Singapore, and Ujung Pandang FIR).

1.2 As present, Kuala Lumpur ACC has commenced AIDC operational implementation with Singapore ACC, Bangkok ACC, and Chennai OCC.

1.3 This paper aims to share the progress and status of AIDC implementation in Malaysia.

2. DISCUSSION**2.1 AIDC Implementation in Kuala Lumpur FIR****2.1.1 Kuala Lumpur ACC and Chennai OCC**

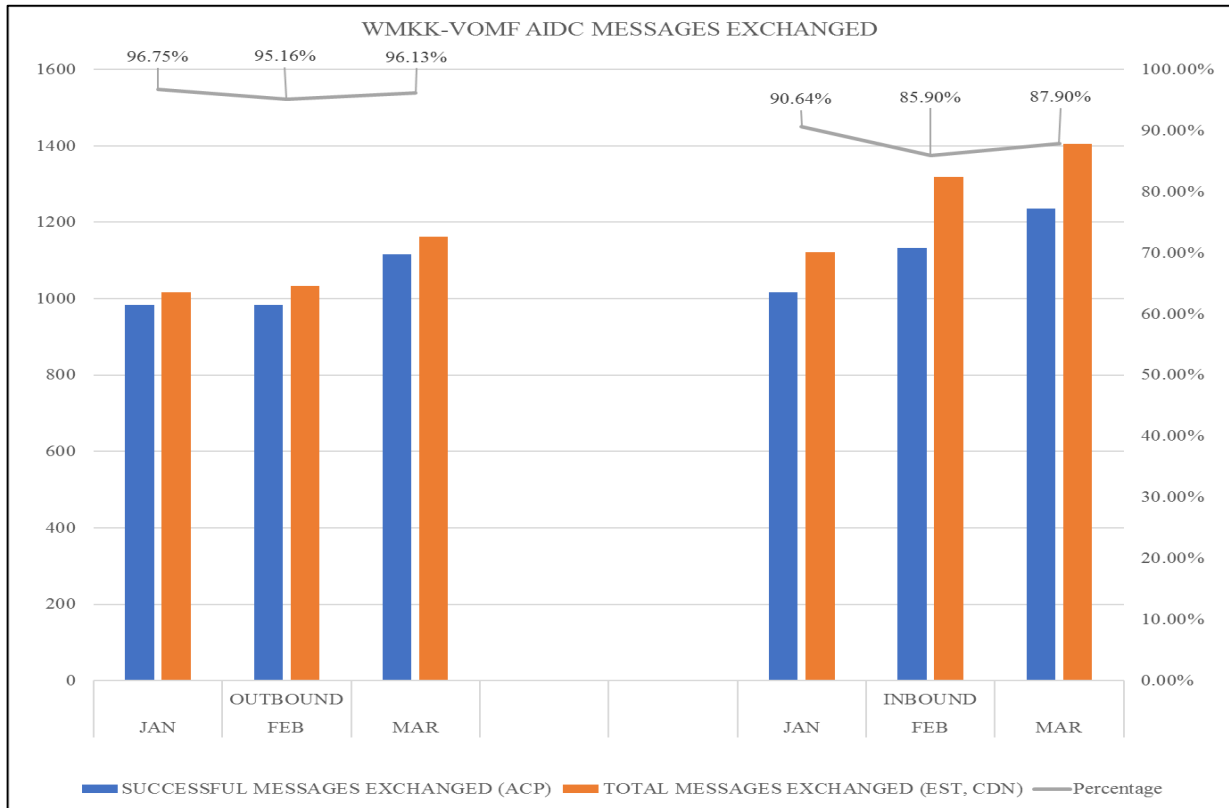
2.1.1.1 The AIDC operational implementation between Kuala Lumpur ACC and Chennai OCC started since 1st April 2020. The AIDC messages included for exchange are ABI, EST, ACP, LAM, LRM, CDN, REJ and MAC.

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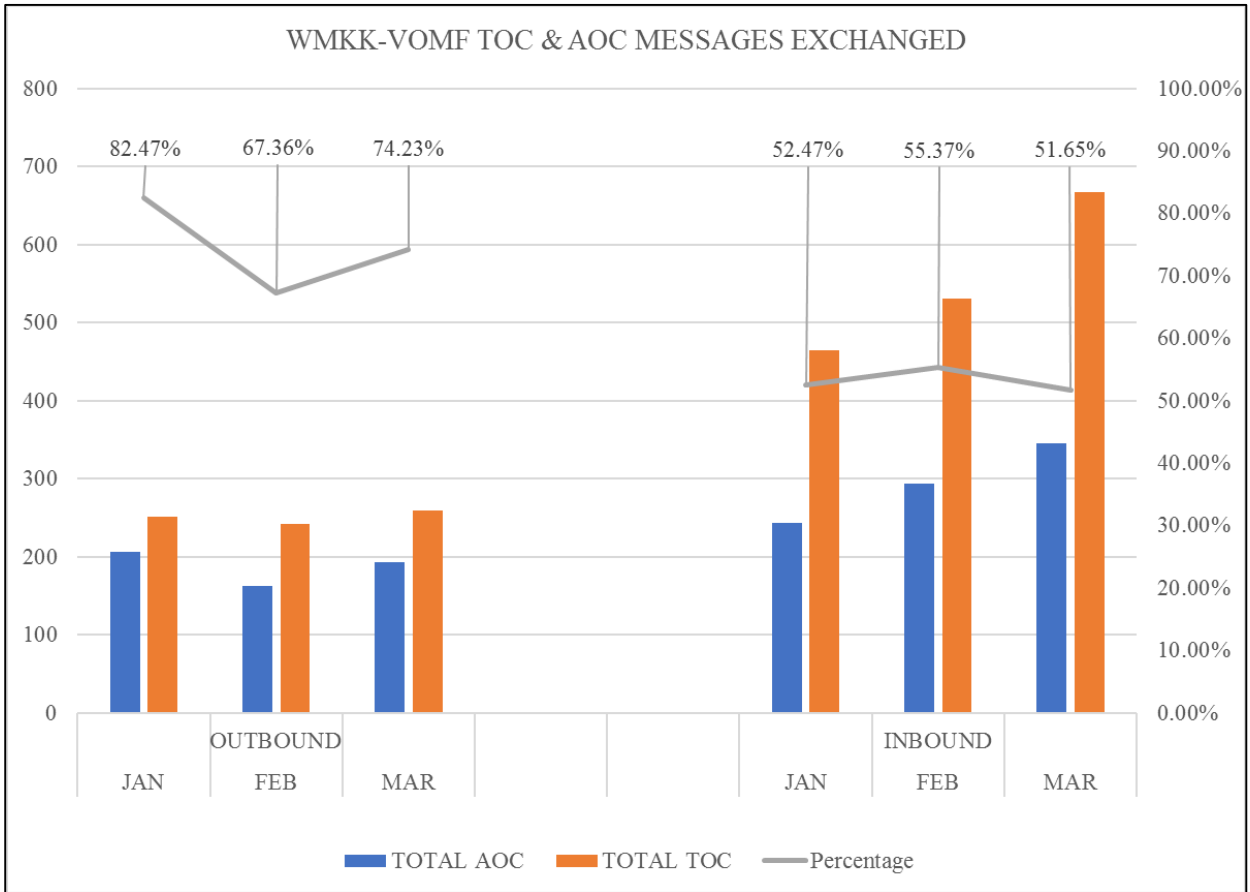
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2.1.1.2 The AIDC operational implementation of TOC and AOC messages between Kuala Lumpur ACC and Chennai OCC came into effect on the 1st January 2021.

2.1.1.3 The statistic of AIDC message exchange for month of January to March 2021 are as follows:



	OUTBOUND			INBOUND		
	JAN	FEB	MAR	JAN	FEB	MAR
SUCCESSFUL MESSAGES EXCHANGED (ACP)	983	983	1117	1017	1133	1235
TOTAL MESSAGES EXCHANGED (EST, CDN)	1016	1033	1162	1122	1319	1405
SUCCESSFUL PERCENTAGE	96.75%	95.16%	96.13%	90.64%	85.90%	87.90%



	OUTBOUND			INBOUND		
	JAN	FEB	MAR	JAN	FEB	MAR
TOC	251	242	260	465	531	668
AOC	207	163	193	244	294	345
SUCCESSFUL PERCENTAGE	82.47%	67.36%	74.23%	52.47%	55.37%	51.65%

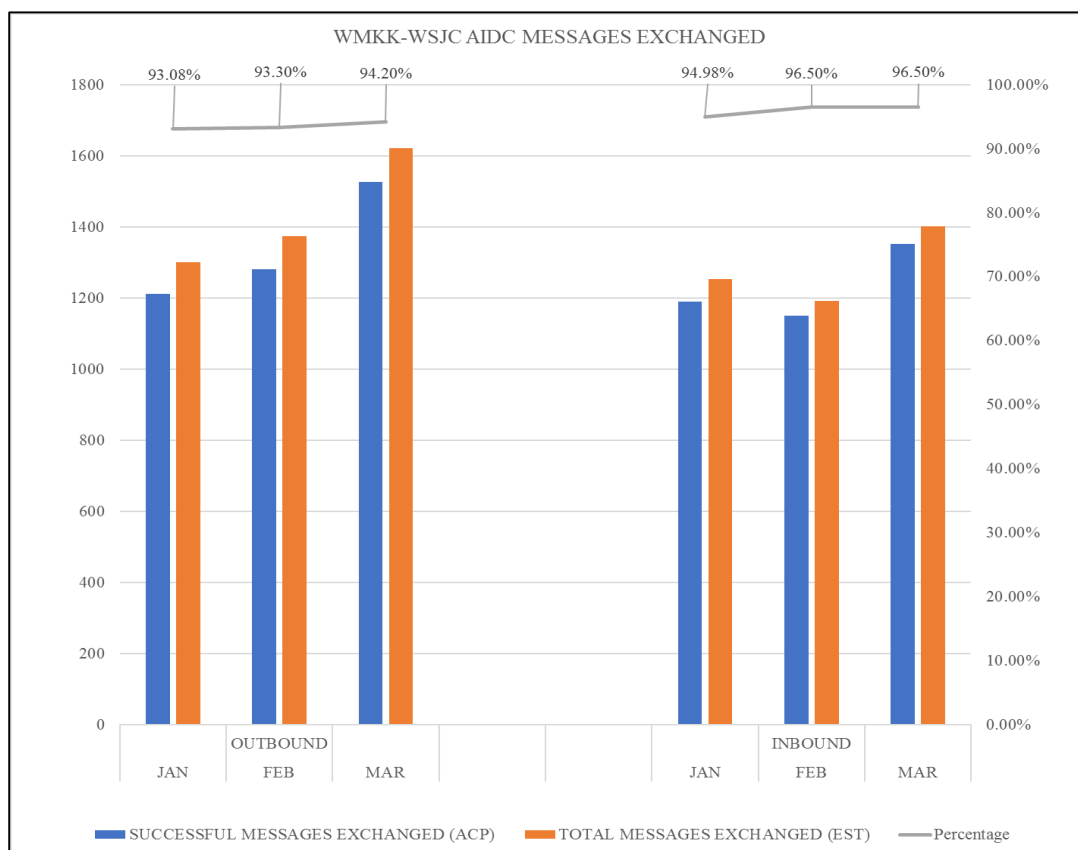
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2.1.2 Kuala Lumpur ACC and Singapore ACC

2.1.2.1 Kuala Lumpur ACC and Singapore ACC started the AIDC operational implementation since 1st November 2019. The AIDC messages included for exchange are EST, ACP, LAM, and LRM.

2.1.2.2 The statistic of AIDC message exchange for month of January to March 2021 are as follows:



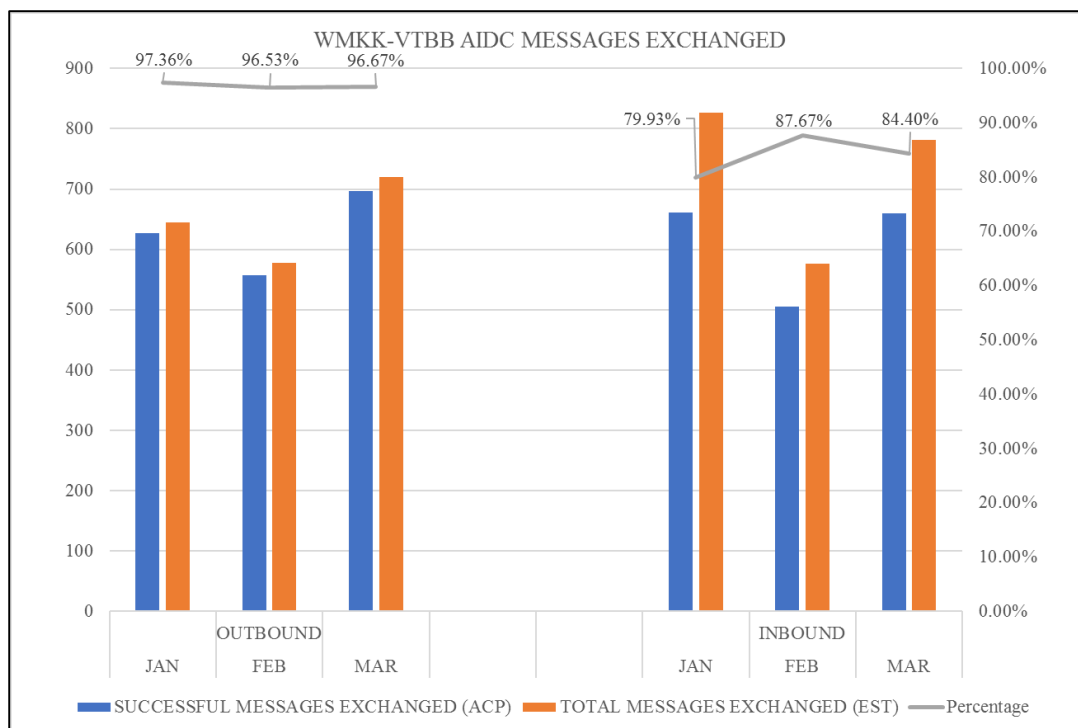
	OUTBOUND			INBOUND		
	JAN	FEB	MAR	JAN	FEB	MAR
SUCCESSFUL MESSAGE EXCHANGED (ACP)	1211	1282	1527	1191	1151	1352
TOTAL MESSAGE EXCHANGED (EST)	1301	1374	1621	1254	1193	1401
SUCCESSFUL PERCENTAGE	93.08%	93.30%	94.20%	94.98%	96.48%	96.50%

2.1.2.3 Further discussion on future implementation of AIDC messages which include ABI, CDN and REJ between both ACCs will be discussed in the future.

2.1.3 Kuala Lumpur ACC and Bangkok ACC

2.1.3.1 Kuala Lumpur ACC and Bangkok ACC started AIDC operational implementation since 14th March 2020. The AIDC messages implemented are EST, ACP, LAM and LRM.

2.1.3.2 The statistic of AIDC message exchange for month of January to March 2021 are as follows:



	OUTBOUND			INBOUND		
	JAN	FEB	MAR	JAN	FEB	MAR
SUCCESSFUL MESSAGES EXCHANGED (ACP)	627	557	696	661	505	660
TOTAL MESSAGES EXCHANGED (EST)	644	577	720	827	576	782
SUCCESSFUL PERCENTAGE	97.36%	96.53%	96.67%	79.93%	87.67%	84.40%

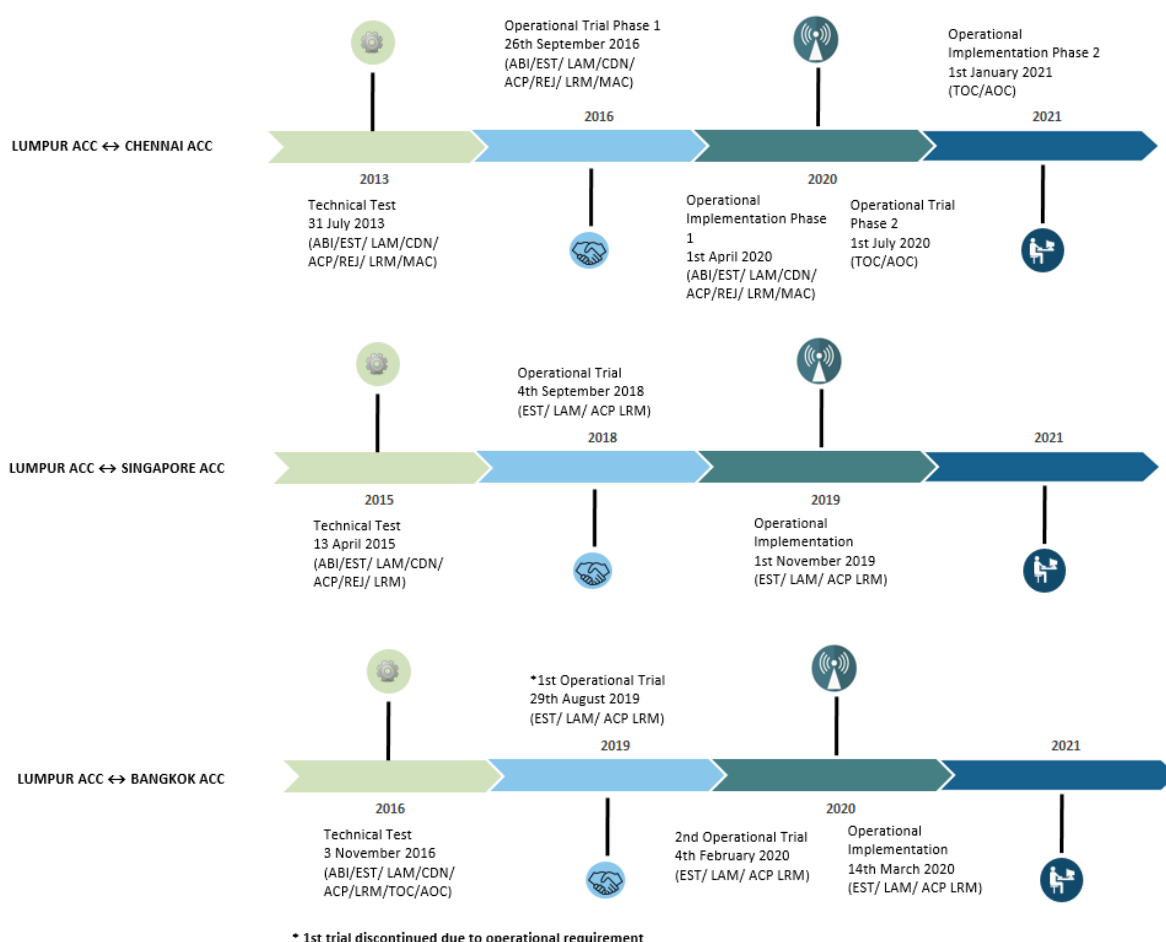
2.1.3.3 Further discussion on future implementation of AIDC messages which include CDN, TOC and AOC between both ACCs will be discussed in the future.

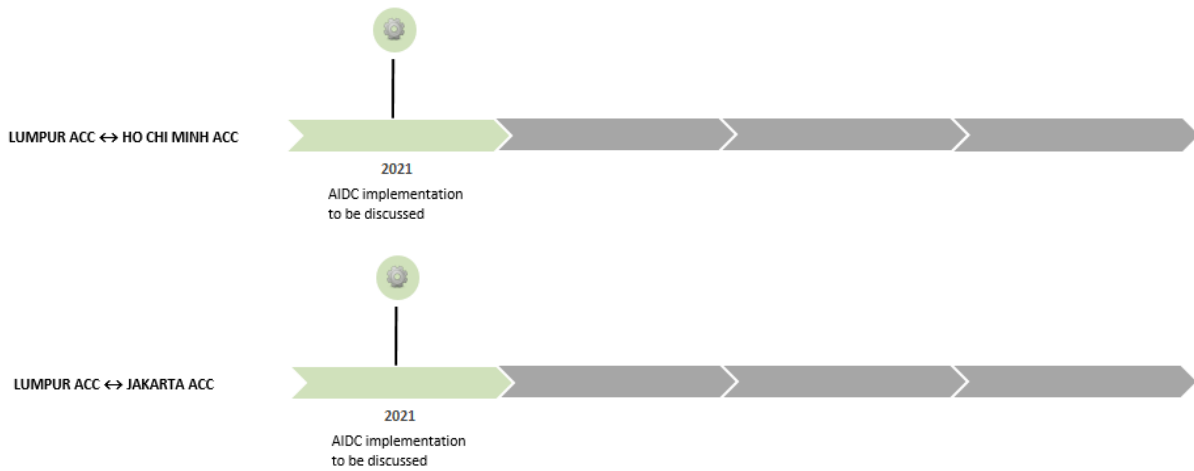
2.1.4 Recommendation for AIDC Statistic Enhancement/Improvement For All State

2.1.4.1 For further enhancement on the successful AIDC message exchange rate, following actions shall be considered:

- a) Human factor;
 - i. Training/Retraining on AIDC operation shall be carried out periodically to ATCOs to:
 - a. reduce the issue of late response for CDN messages;
 - b. increase awareness on initiating TOC; and
 - c. reduce late response of AOC messages;
- b) System;
 - i. To eliminate the occurrence of double EST/ACP transmission; and
 - ii. To ensure the AIDC messages exchanges are as per agreed in the LOA/ATSCP;
- c) Others;
 - i. Continuous monitoring and research towards LRM issues shall be carried out and the findings shall be discussed among the relevant states; and
 - ii. Engagement with stakeholder regarding FPL shall be carried out to ensure the Flight Planning is in accordance to published AIP.

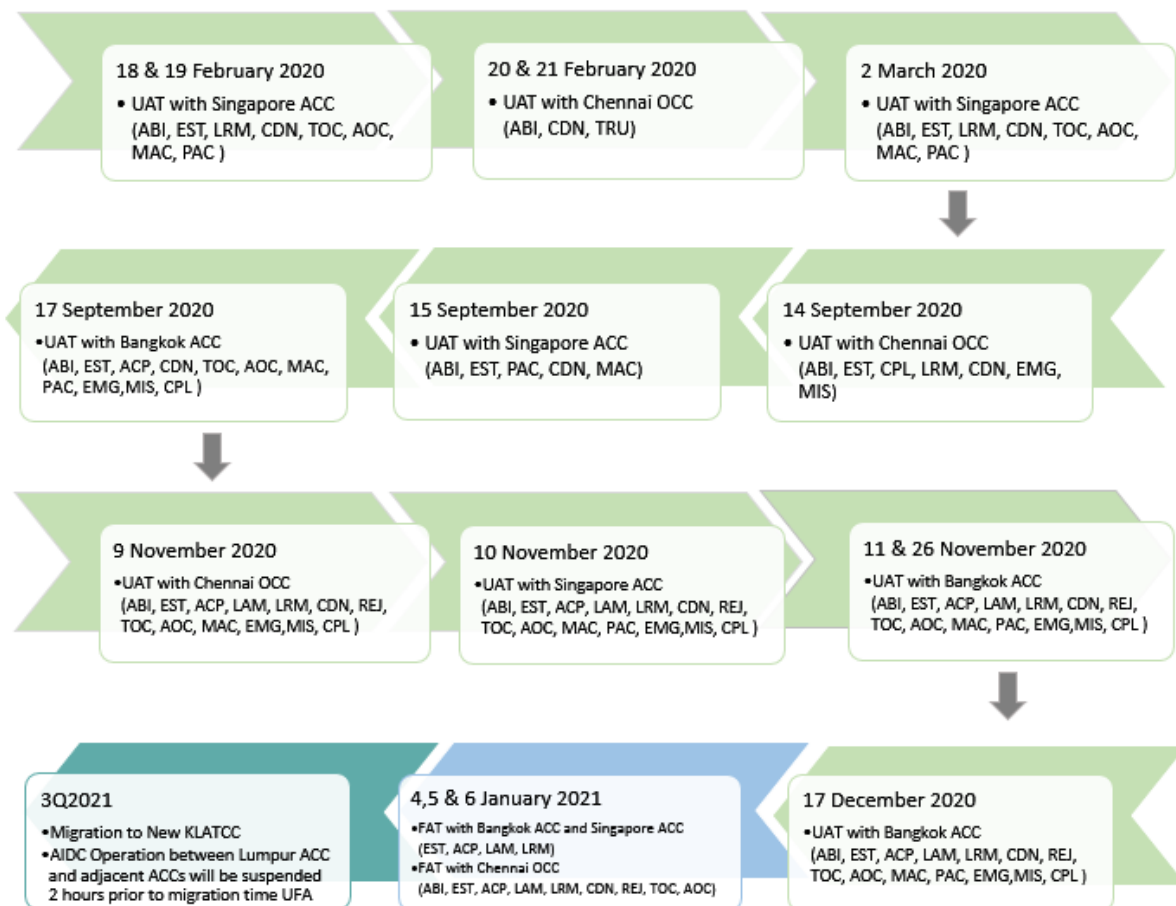
2.1.5 Summary (Kuala Lumpur ACC and Adjacent ACC)





2.1.6 AIDC Implementation in New Kuala Lumpur ACC, Sepang

2.1.6.1 On the 3Q2021, Lumpur ACC will be relocated to a new centre (From Subang to Sepang). A series of tests has been done with the adjacent FIRs. The chronological flow of the tests conducted from the New KLATCC are as below:



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2.2 AIDC Implementation in Kota Kinabalu FIR

2.2.1 Kota Kinabalu ACC and Ujung Pandang ACC

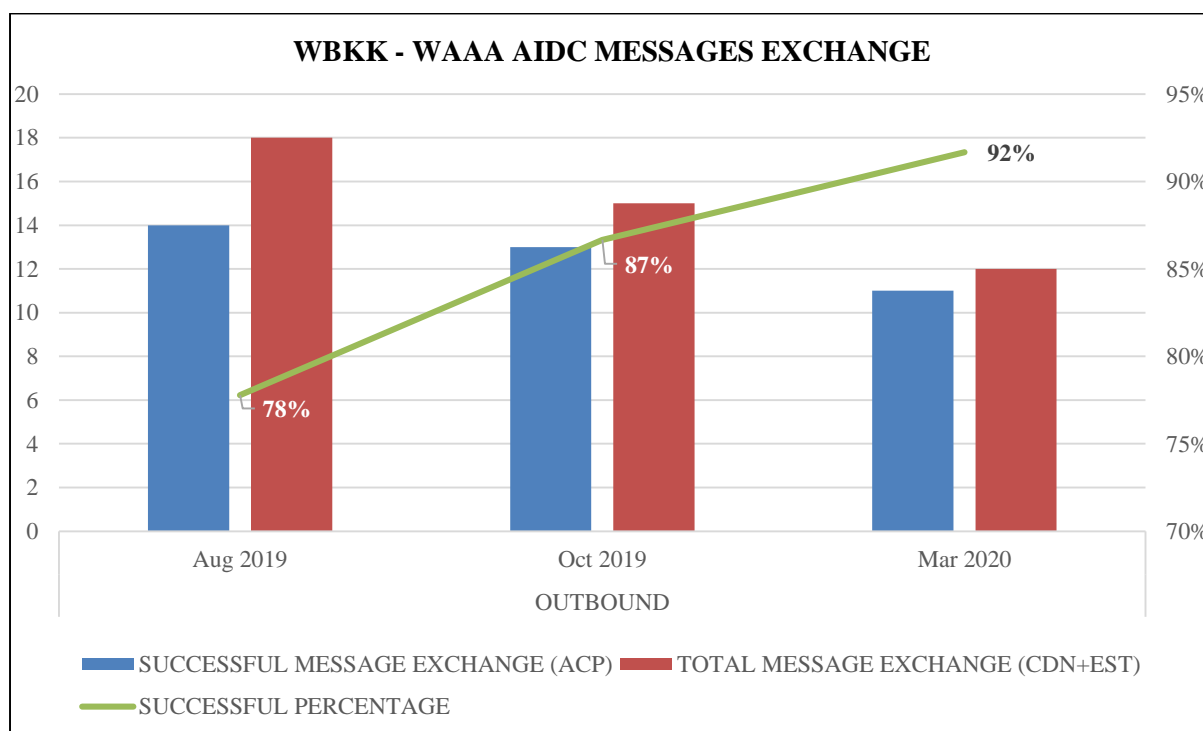
2.2.1.1 The AIDC Technical Test 1 between Kota Kinabalu ACC and Ujung Pandang ACC was conducted on 7 – 8th August 2019. The AIDC messages included for exchange are ABI, EST, LAM, CDN, ACP, REJ, LRM and MAC.

2.2.1.2 The AIDC Technical Test 2 was conducted on 23-24th October 2019. The AIDC messages included for exchange are ABI, EST, ACP, TOC, AOC, MAC, LAM and LRM.

2.2.1.3 The AIDC Technical Test 3 was conducted on 11th March 2020. The AIDC messages included for exchange are EST, ACP, LAM and LRM only.

2.2.1.4 The next plan is to conduct next AIDC Technical Test on 3Q2021.

2.2.1.5 The statistic of AIDC message exchange are as follows:



2.2.2 Kota Kinabalu ACC and Singapore ACC

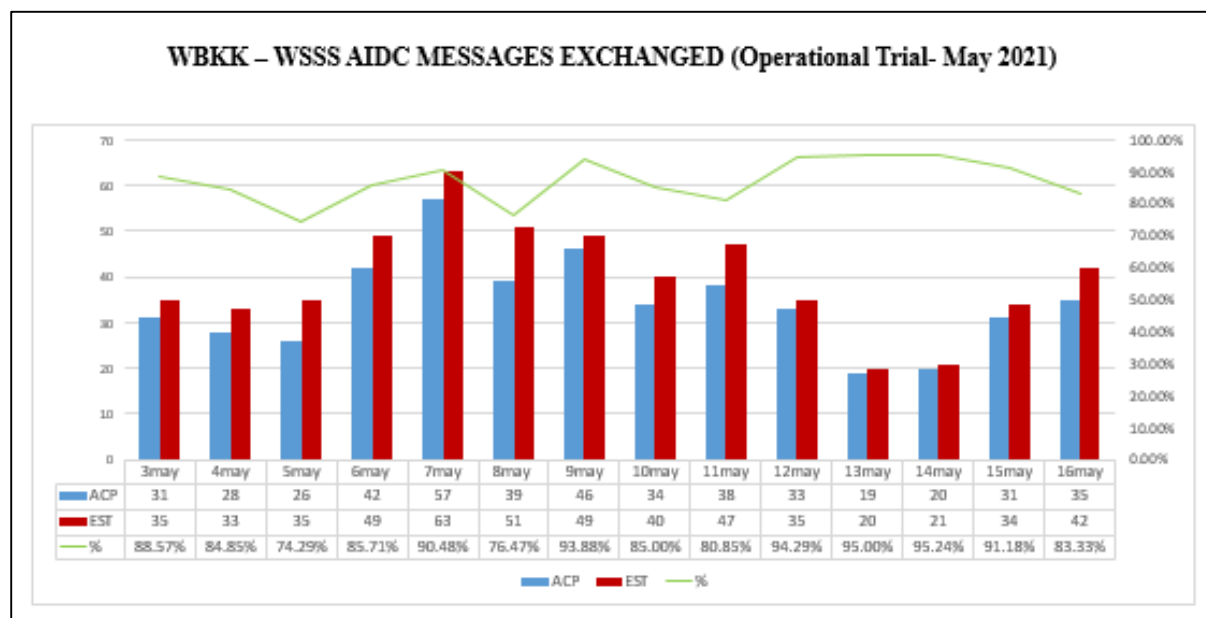
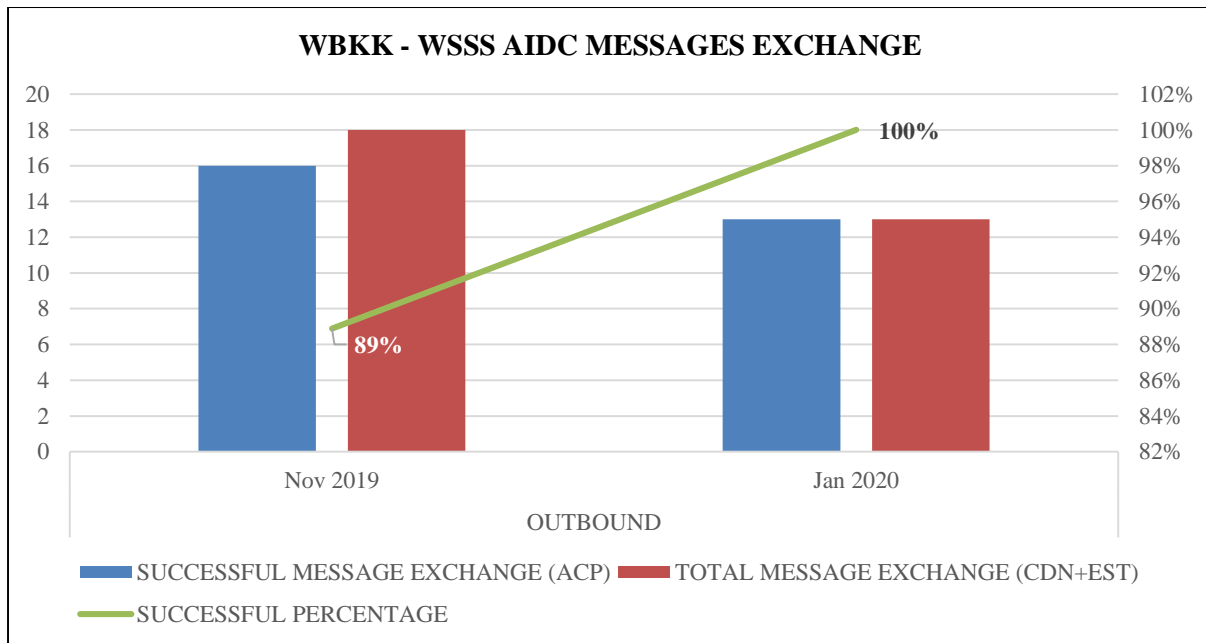
2.2.2.1 The AIDC Technical Test 1 between Kota Kinabalu ACC and Singapore ACC was conducted on 18-19th November 2019. The AIDC messages included for exchange are ABI, EST, LAM, CDN, ACP, REJ, LRM and MAC.

2.2.2.2 The AIDC Technical Test 2 was conducted on 16th January 2020. The AIDC messages included for exchange are EST, ACP, LAM and LRM only.

2.2.2.3 The AIDC Operational Trial between Kota Kinabalu ACC and Singapore ACC started since 16th November 2020 and to be extended until 30th June 2021.

2.2.2.4 Agreement on Operational Implementation has been materialized on 3rd June 2021 between Kota Kinabalu ACC and Singapore ACC via videoconference. Operational Implementation is agreed to be conducted on 1st July 2021. The AIDC messages included for exchange are EST, LAM, LRM and ACP.

2.2.2.5 The statistic of AIDC message exchange for Technical Tests and Operational Trial are as follows:



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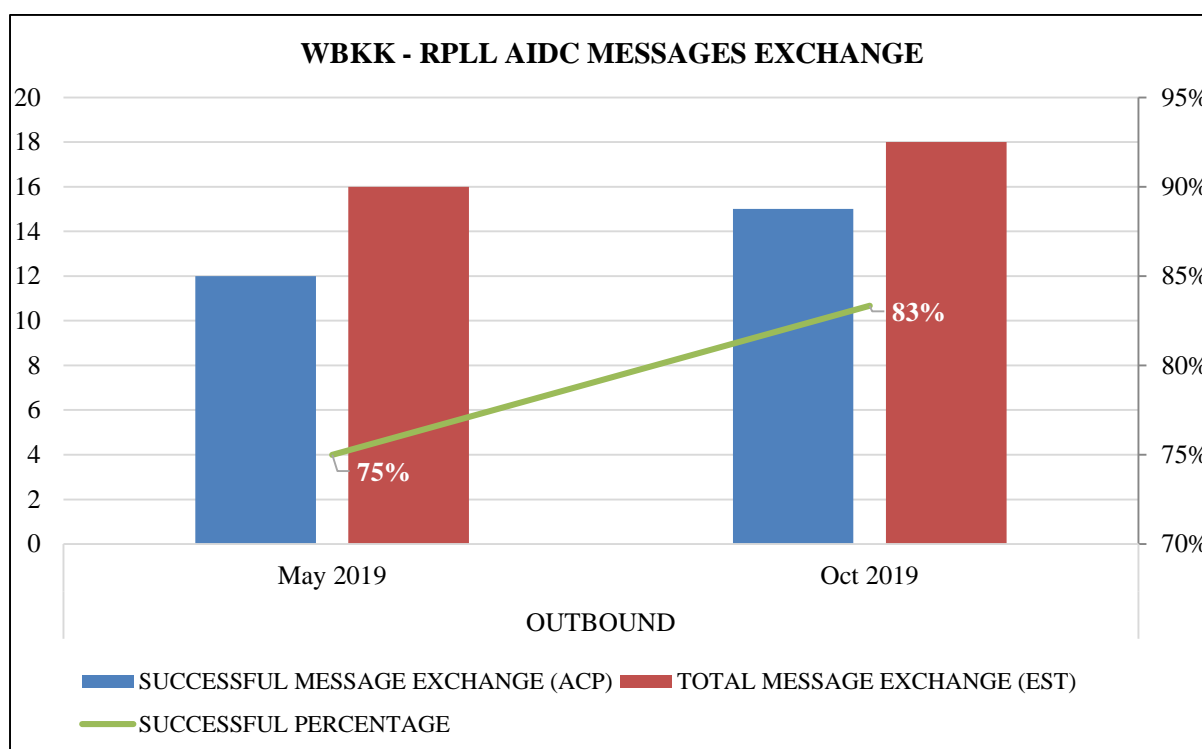
2.2.3 Kota Kinabalu ACC and Manila ACC

2.2.3.1 The AIDC Technical Test 1 between Kota Kinabalu ACC and Manila ACC was conducted on 21-22nd May 2019. The AIDC messages included for exchange are ABI, EST, ACP, TOC, AOC, MAC, LAM and LRM.

2.2.3.2 The AIDC Technical Test 2 was conducted on 21-22nd October 2019. The AIDC messages included for exchange are ABI, EST, ACP, TOC, AOC, MAC, LAM and LRM.

2.2.3.3 The next plan is to conduct next AIDC Technical Test on 3Q2021.

2.2.3.4 The statistic of AIDC message exchange for both Technical Test are as follows:



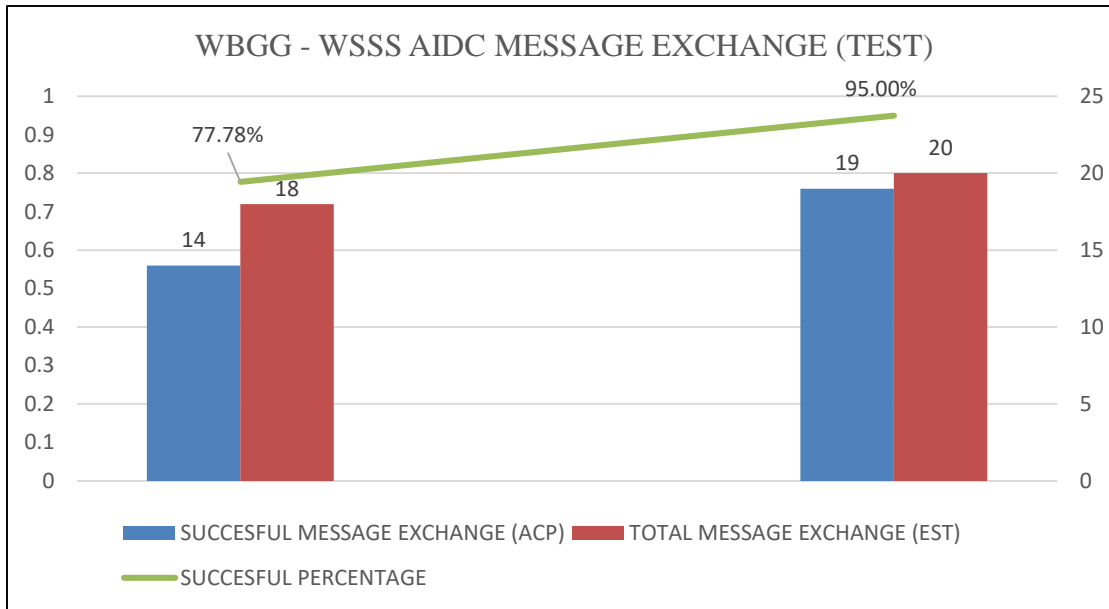
2.2.4 Kuching ACC and Singapore ACC

2.2.4.1 The AIDC Technical Test (First and Second) between Kuching ACC and Singapore ACC was conducted both on 11 November 2015 and 24-25 November 2015. The AIDC messages included for exchange are ABI, EST, LAM, CDN, ACP, REJ, and LRM. However, it was discontinued until November 2019.

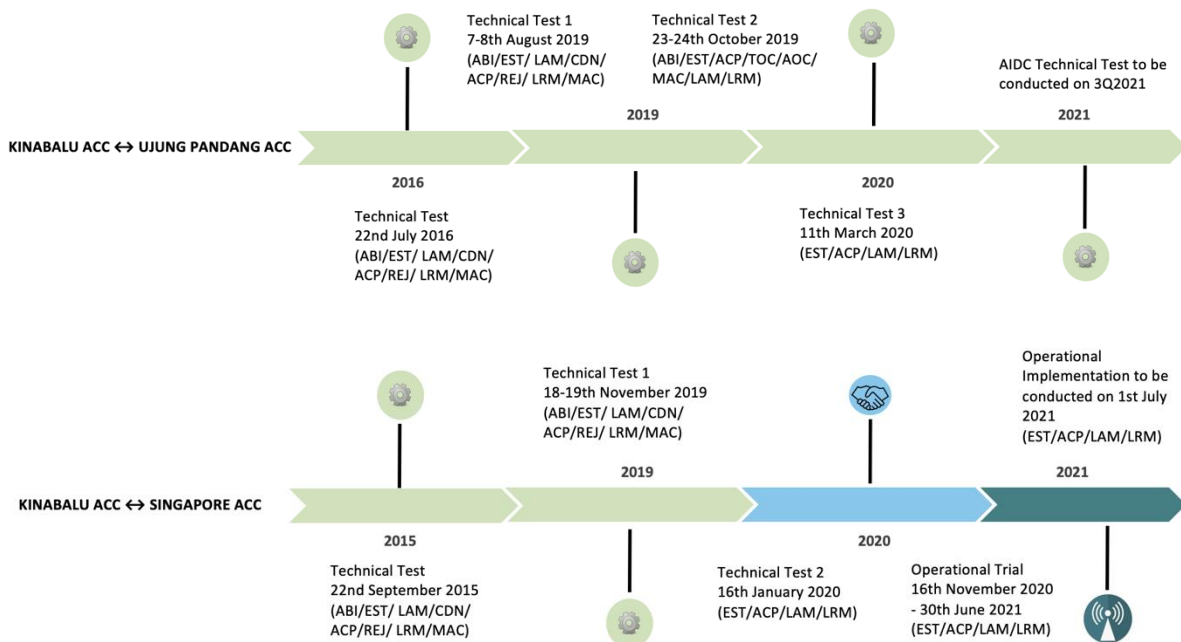
2.2.4.2 The AIDC Technical Test (Third and Fourth) was conducted both on 20-21 November 2019 and 14 January 2020. The AIDC messages included for exchange are ABI, EST, LAM, CDN, ACP, REJ, and LRM.

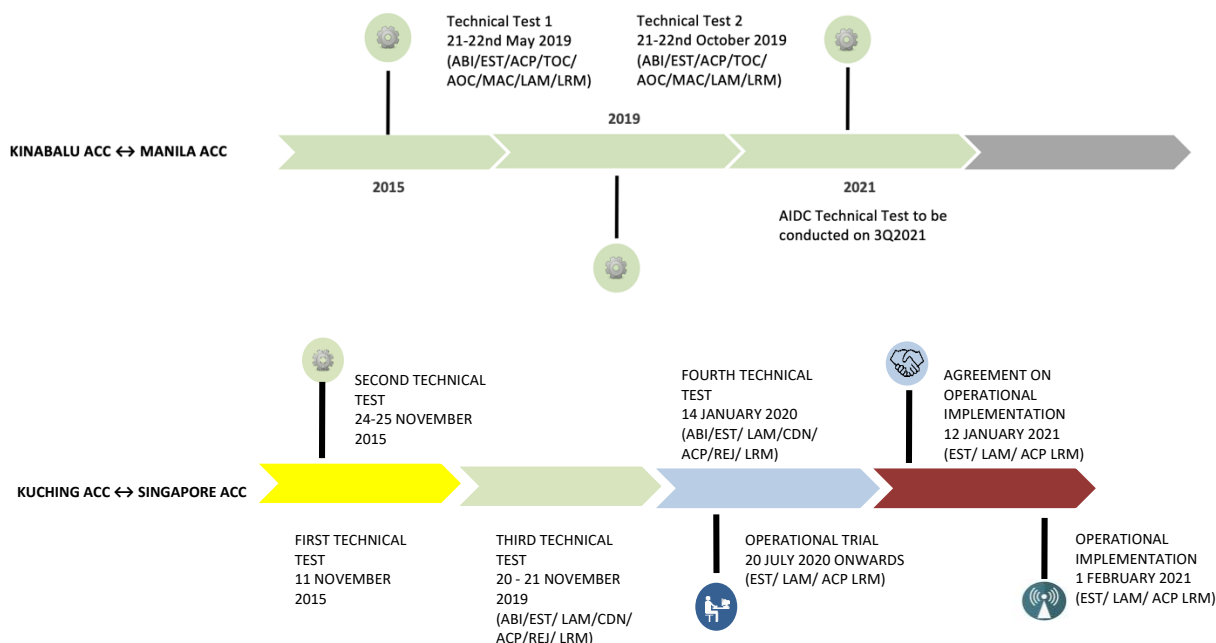
2.2.4.3 The AIDC Operational Trial between Kuching ACC and Singapore ACC started on 20 July until 18 October 2020. Then it was continuing until 31 January 2021.

2.2.4.4 Agreement on Operational Implementation has been materialized on 12 January 2021 between Kuching ACC and Singapore ACC via videoconference. Operational Implementation was on 1 February 2021. The AIDC messages included for exchange are EST, LAM, LRM and ACP.



2.2.5 Summary (Kota Kinabalu FIR and Adjacent FIR)





2.3 If there is any Conclusion/Decision which is expected from the meeting, please complete the following table:

Conclusion/Decision -			
What:		Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input type="checkbox"/> Ops/Technical	
Why:	XXXXXXXXXX	Follow-up:	<input type="checkbox"/> Required from States
When:	12-Jan-21	Status:	Draft to be adopted by PIRG
Who:	<input type="checkbox"/> Sub groups <input type="checkbox"/> APAC States <input type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: XXXX		

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) discuss any relevant matter as appropriate
